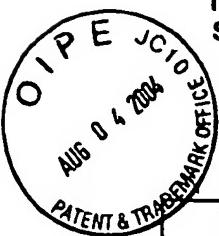


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U.S. PATENT DOCUMENTS

<u>✓</u>	5	7	0	5	0	3	0	Jan. 6, 1998	G. Gassner et al.	162/ 2	162/1
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FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<u>✓</u>	Chawla, K., et al., "Types of Bonding at the Interface", <u>Composite Materials</u> , Springer Verlag, p. 79-86, 200-202, 1987.
<u>✓</u>	Vincent, J., "Structural Biomaterials", <u>Princeton Univ. Press</u> , p. 44-53, 1990.
<u>✓</u>	Lundquist L., et al., "Novel Pulp Fibre Reinforced Thermoplastic Composites", <u>Composites Science and Technology</u> , Vol. 63, p. 137-152, 2003.
<u>✓</u>	Colom, X., et al., "Effects of Different Treatments on the Interface of DPE/lignocellulosicFiber Composites", <u>Composites Science and Technology</u> , Vol. 63, p. 161-169, 2003.
<u>✓</u>	Jana, S.C., et al., "On the Development of Natural Fiber Composites of High Temperature Thermoplastic Polymers", <u>J. Appl. Polymer Sci.</u> , Vol. 86, p. 2159-2167, 2002.
<u>✓</u>	Jana, S.C., et al., "Natural Fiber Composites of High-Temperature Thermoplastic Polymers", <u>J. Appl. Polymer Sci.</u> , Vol. 86, p. 2168-2173, 2002.
<u>✓</u>	Nunez, A.J., et al., "Thermal and Dynamic Mechanical Characterization of Polypropylene-Wood Flour Composites", <u>Polymer Eng. and Sci.</u> , , Vol. 42(4), p. 733-742, April 2002.
<u>✓</u>	Oksman, K., et al., "Mechanical Properties and Morphology of Impact Modified Polypropylene-Wood Flour Composites", <u>J. Appl. Polymer Sci.</u> , Vol. 67, p. 1503-1513, 1998.
<u>✓</u>	Schneider, J.P. , et al., "Biofibers as Reinforcing Fillers in Thermosplastic Composites", <u>J. Vinyl. Add. Tech.</u> , Vol. 1(2), p. 103-108, June 1995.
<u>✓</u>	Maldas, D., et al., "Composite Molded Products Based on Recycled Polypropylene and Woodflour", <u>J. Therm. Comp. Mat.</u> , Vol. 8, p. 420-434, October 1995.

EXAMINER

DATE CONSIDERED

7-05

EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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						YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

1	Jayaraman, K., "Manufacturing Sisal-Polypropylene Composites with Minimum Fibre Degradation", <u>Comp. Sci. Tech.</u> , Vol. 63, p. 367-374, 2003.
2	Rana, A.K., et al., "Short Jute Fiber Reinforced Polypropylene Composites: Effect of Compatibiliser, Impact Modifier, and Fiber Loading", <u>Comp. Sci. Tech.</u> , Vol. 63, pp. 801-806, 2003.
3	Hughes, M., et al., "The Fracture Toughness of Bast Fibre Reinforced Polyester Composites", Part 1 : Evaluation and Analysis", <u>J. Materials Sci.</u> , Vol. 37, pp. 4669-4676, 2002.
4	Murayama-Arai, et al., "Amino-Acid Sequence of Feather Keratin from Fowl", <u>Eur. J. Biochem.</u> , Vol. 132, p. 501-507, 1983.
5	Madera-Santana, T.J., et al., "Production of Leather-Like Composites Using Short Leather Fibers.II. Mechanical Characterization", <u>Polymer Composites</u> , Vol. 23(6), p. 991-1002, December 2002.
6	Parkinson, G., "Chemementator: A Higher Use for Lowly Chicken Feathers?", <u>Chem. Eng.</u> , Vol. 105(3), p. 21, March 1998.

EXAMINER

DATE CONSIDERED

7-05

EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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APPLICANT
J. Barone et al.

FILING DATE 12/31/03	GROUP 1711
-------------------------	---------------

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

✓ Schmidt, W., et al., "Microcrystalline Avian Keratin Protein Fibers", ed. F. Wallenberger and N. Weston. Kluwer Academic Publishers, Chapter 4, pp. 51-66, 2004.
✓ Schmidt, W.F., et al., "Physical and Chemical Structures of Poultry Feather Fiber Fractions in Fiber Process Development", TAPPI Proceeding: Nonwovens Conference, p. 135-140, 1996.
✓ Fraser, R.D.B., et al., Keratins: Their Composition, Structure, and Biosynthesis", Charles C. Thomas Publisher, p. 31, 1972.
✓ Purslow, P.P., et al., "Mechanical Properties of Primary Feathers from the Pigeon", J. Exp. Biol., Vol. 72, p. 251-260, 1978.
✓ Fraser, R.D.B., et al., "Molecular Structure and Mechanical Properties of Keratins", Symposia of the Society for Experimental Biology, Number XXXIV, Cambridge University Press, pp. 218-240, 1980.
✓ Feughelman, M., "Wool, Human Hair, and Related Fibres, Mechanical Properties and Structure of Alpha-Keratin Fibres", Univ. New South Wales Press, Sydney, pp. 8-27, 1997.
✓ Dweib, M.A., et al., "All Natural Composite Sandwich Beams for Structural Applications", Composite Structures, Vol. 63, pp. 147-157, 2004.
✓ Bullions, T.A., et al., "The Effect of Maleic Anhydride Modified Polypropylene on the Mechanical Properties of Feather Fiber, Kraft Pulp, Polypropylene Composites", J. Applied Pol. Science, Vol. 92, p. 3771-3783, 2004.

EXAMINER

DATE CONSIDERED

7-05

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J. Barone et al.	1711
FILING DATE	
12/31/03	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<input checked="" type="checkbox"/>	Schuster, J., "Polypropylene Reinforced with Chicken Feathers", <u>14th International Conference on Composite Materials</u> , San Diego, CA, July 14-18, 2003.
<input checked="" type="checkbox"/>	Hong, C., et al., "Low Dielectric Constant Materials, from Soybean Oils and Hollow Keratin Fibers", <u>Univ. of Delaware, Center for Composite Materials, CCM-Research Review</u> , April 30, 2003.
<input checked="" type="checkbox"/>	Hamoush, S., et al., "Feather Fiber reinforced Concrete", <u>Concrete Int.: Design and Construction</u> , Vol. 16, (6), p. 33-35, June 1994.
<input checked="" type="checkbox"/>	Ferry, J., <u>Viscoelastic Properties of Polymers</u> , p. 233 and 409, 1980.
<input checked="" type="checkbox"/>	Yamauchi, K., et al., "Cultivation of Fibroblast Cells on Keratin-Coated Substrata", <u>J. Biomater. Sci. Polymer Edn.</u> , Vol. 9, (3), pp. 259-270, 1998.
<input checked="" type="checkbox"/>	Yamauchi, K., et al., "Enhanced Cell Adhesion on RGDS-Carrying Keratin Film", <u>Materials Science and Engineering</u> , Vol. 23, pp. 467-472, 2003.
<input checked="" type="checkbox"/>	Orliac, O., et al., "Effects of Various Plasticizers on the Mechanical Properties, Water Resistance and Aging of Thermo-Moulded Films Made From Sunflower Proteins", <u>Indust. Crops and Prod.</u> , Vol. 18, pp. 91-100, 2003.
<input checked="" type="checkbox"/>	Okamoto, S., et al., "Factors Affecting Protein Film Formation", <u>Technical Section</u> , Vol.23, (5), pp. 256-262, May 1978.

EXAMINER

DATE CONSIDERED

7-05

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J. Barone et al.	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

✓	Tillekeratne, M., et al., "Modification of Zein Films by Incorporation of Poly(ethylene glycol)s", <u>Polymer International</u> , Vol. 49, pp. 127-134, 2000.
✓	Kandil, S., et al., "Recycling of Pharmaceutical Waste Gelatin for Controlled-Release Applications.I. A 2,4-Dicholorphenoxy Acetic Acid Based System", <u>J. Appl. Polymer Sci.</u> , Vol. 91, pp. 2313-2319, 2004.
✓	Hoffmann, J., et al., "Assessing Biodegradability of Plastics Based on Poly(vinyl alcohol) and Protein Wastes", <u>Polymer Degradation and Stability</u> , Vol. 79, pp. 511-519, 2003.
✓	Schrooyen, P., et al., "Partially Carboxymethylated Feather Keratins. 2. Thermal and Mechanical Properties of Films", <u>J. Agric. Food Chem.</u> , Vol. 49(1), pp. 221-230, 2001.
✓	Schrooyen, P., et al., "Partially Carboxymethylated Feather Keratins. 1. Properties in Aqueous Systems", <u>J. Agric. Food Chem.</u> , Vol. 48, pp. 4326-4334, 2000.
✓	Yamauchi, K., et al, "Preparation of Stable Aqueous Solution of Keratins, and Physiochemical and Biodegradational Properties of Films", <u>J. Biomed. Materials Res.</u> , Vol. 31, pp. 439-444, 1996.
✓	Aklonis, J., "Introduction to Polymer Viscoelasticity", <u>A Wiley-Interscience Publication</u> , pp. 126-128, 1983.
✓	Fraser, R.D.B., et al., "Keratins Their Composition, Structure and Biosynthesis", p. 31, Table 3.1, Charles C. Thomas Publisher, 1972.

EXAMINER

DATE CONSIDERED

7-05

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<u>Bigi, A., et al, "Structural and Mechanical Properties of Crosslinked Drawn Gelatin Films", J. Thermal Anal. and Calorimetry, Vol. 61, pp. 451-459, 2000.</u>
<u>Ali, R., et al., "Effect of Processing Conditions on Mechanical and Viscoelastic Properties of Biocomposites", J. Appl. Pol. Science, Vol. 88, pp. 1637-1642, 2003.</u>

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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References (42)

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